U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-260 357

WATER POLLUTION CONTROL TRAINING GRANTS

1969 GRANT AWARDS: PROFESSIONAL TRAINING GRANTS TECHNICAL TRAINING GRANTS, RESEARCH FELLOWSHIPS

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
WASHINGTON, D.C.

1969

217036

PB 260 357

Water Pollution Control Training Grants

1969 Grant Awards

PROFESSIONAL TRAINING GRANTS
TECHNICAL TRAINING GRANTS
RESEARCH FELLOWSHIPS

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FEDERAL WATER POLLUTION CONTROL ADMINISTRATION

Office of Operations

Division of Manpower and Training

Washington, D.C. 20240

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See also PB-216 466.

16. Abstracts A listing of grants for training projects and for research fellowship awards as authorized by the Federal Water Pollution Control Act is given.

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*Water pollution

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Water Pollution Control Training Grants

1969 Grant Awards

PROFESSIONAL TRAINING GRANTS

TECHNICAL TRAINING GRANTS

RESEARCH FELLOWSHIPS

U.S. DEPARTMENT OF THE INTERIOR

Federal Water Pollution Control Administration

FOREWORD

AUTHORITY: Grants for training projects and for research fellowship awards are authorized in Section 5 of the Federal Water Pollution Control Act, Public Law 660, as amended.

PURPOSES: The purposes of these grants are to encourage, cooperate with and assist appropriate agencies, institutions, and individuals in the conduct of studies and training relating to the causes, control and prevention of water pollution.

APPLICATION: To obtain details concerning the various awards and to request forms for the submission of applications, write to:

Training Grants Branch
Division of Manpower and Training
Federal Water Pollution Control Administration
Department of the Interior
Washington, D. C. 20240

DISCRIMINATION PROHIBITED: Title VI of the Civil Rights Act of 1964 states: "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program of activity receiving Federal financial assistance." Therefore, programs or individuals supported by the Training Grants Branch, Division of Manpower and Training, Federal Water Pollution Control Administration, like every program or activity receiving financial assistance from the Department of the Interior, must be operated in compliance with this law.

WATER POLLUTION CONTROL

TRAINING GRANTS

LIST OF 1969 AWARDS

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WATER POLLUTION CONTROL

TRAINING GRANT PROGRAM

SUMMARY OF AWARDS

FISCAL YEAR 1969

Grants	Number States	Number Institutions	Grants Awarded	Amount Awarded
Professional Training Grants	39	61	79	$3,201,543
Technical Training Grants	6	7	7	198,457
Research Fellowships	22	37	91	592,094
ALL GRANTS	41	76	177	$3,992,094

WATER POLLUTION CONTROL

PROFESSIONAL TRAINING GRANTS FISCAL YEAR 1969

SUMMARY OF GRANTS AWARDED BY STATES

States	Institutions and Agencies	Number Awards	Amount Awarded
Arizona	1	1	$ 30,393
Arkansas	1	1	42,908
California	3	4	144,312
Colorado	2	2	93,633
District of Columbia	1	1	19,242
Florida	1	1	56,569
Georgia	1	1	44,386
Hawaii	1	1	9,049
Illinois	3	3	171,827
Indiana	1	1	47,306
Iowa	1	1	35,084
Kansas	1	1	32,486
Kentucky	1	1	13,924
Maine	1	1	14,974
Maryland	1	1	32,048
Massachusetts	3	5	169,763
Michigan	3	3	214,540
Minnesota	1	2	34,796
Mississippi	1	1	51,317
Missouri	2	2	67,983
Montana	1	1	53,055
Nebraska	1	1	31,409
New Jersey	1	1	39,103
New Mexico	1	1	32,097
New York	3	5	236,378
North Carolina	2	3	133,119
Ohio	3	3	109,324
Oklahoma	2	3	99,730
Oregon	1	4	199,051
Pennsylvania	2	2	70,392
South Carolina	1	1	60,268
South Dakota	1	1	28,510
Tennessee	1	1	49,758
Texas	4	4	244,636
Utah	2	3	109,223
Virginia	1	1	40,364
Washington	2	3	97,146
West Virginia	1	1	25,838
Wisconsin	2	6	215,602
39 States	61	79	3,201,543

Active Professional Training Grants 1969

39 States
61 Institutions and Agencies
79 Professional Training Grants

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WATER POLLUTION CONTROL

PROFESSIONAL TRAINING GRANTS

FISCAL YEAR 1969

LOCATION AND INVESTIGATOR	PROGRAM TITLE	GRANT NO.	AMOUNT
ARIZONA			
University of Arizona Tucson			
Mees, Quentin M., M.S. Dept. of Civil Engr.	Training in Water Management, Development and Reuse	5T1-WP-92-04	$ 30,393
ARKANSAS			
University of Arkansas Fayetteville			
Heiple, Loren R., Ph.D. Dept. of Civil Engr.	Training in Water Supply and Pollution Control	5T1-WP-85-05	42,908
CALIFORNIA			
San Jose State College San Jose			
Agardy, Franklin J., Ph.D. Dept. of Civil Engr. & Applied Mechanics	Sanitary Engineering Graduate Training Program	5T1-WP-198-02	22,449
Stanford University Stanford			
Eliassen, Rolf, Sc.D. Dept. of Civil Engr.	Training in Water Supply and Pollution Control	5T1-WP-193-01	80,877
Kruger, Paul, Ph.D. Dept. of Civil Engr.	Nuclear Methods in Water Supply and Pollution Control	1T1-WP-237-01	27,063
University of California Davis			
Biggar, James W., Ph.D. Dept. of Water Science & Engr.	Water Supply, Quality and Pollution	2T1-WP-205-02 3T1-WP-205-02(S1)	10,055 3,868
COLORADO			
University of Colorado Boulder			
Flack, J. Ernest, Ph.D. Dept. of Civil Engr.	Training in Water Supply and Pollution Control	5T1-WP-105-04	38,141

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LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
COLORADO (Cont.)			
Colorado State University Fort Collins			
Morrison, Sumner M., Ph.D. Dept. of Microbiology	Training in Water Supply and Pollution Control	5T1-WP-127-04	$ 55,492
DISTRICT OF COLUMBIA			
Howard University Washington			
Varma, Man Mohan, Ph.D. Dept. of Civil Engr.	Bio-Environmental Engineering	1T1-WP-178-01	19,242
FLORIDA			
University of Florida Gainesville			
Bevis, Herbert A., Ph.D. Dept. of Environmental Engr.	Water Pollution Control	5T1-WP-119-03	56,569
GEORGIA			
Georgia Institute of Technology Atlanta			
Kindsvater, Carl E., M.S. Dept. of Civil Engineering	Water Resources Planning and Management	1T1-WP-226-01	44,386
HAWAII			
University of Hawaii Honolulu			
Burbank, Nathan C., Sc.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	2T1-WP-69-06	9,049
ILLINOIS			
Northwestern University Evanston			
Gotaas, Harold B., Sc.D. Dept. of Civil Engineering	Water Resources and Pollution Control Engineering	5T1-WP-135-02	73,955
Southern Illinois University Carbondale			
Verduin, Jacob, Ph.D. Dept. of Botany	Interdisciplinary Training in Aquatic Ecology	ITI-WP-231-01	29,262

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
ILLINOIS (Cont.)			
University of Illinois Urbana			
Engelbrecht, Richard S., Sc.D. Dept. of Civil Engineering	Training in Water Quality and Pollution Control	5T1-WP-128-04	$ 68,610
INDIANA			
Purdue University Lafayette			
Etzel, James E., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	1T1-WP-247-01	47,306
IOWA			
Iowa State University Ames			
Baumann, E. Robert, Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-195-02	35,084
KANSAS			
University of Kansas Lawrence			
McKinney, Ross E., Sc.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	1T1-WP-239-01	32,486
KENTUCKY			
University of Kentucky Lexington			
Lauderdale, Robert A., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	1T1-WP-216-01	13,924
MAINE			
University of Maine Orono			
Sproul, Otis J., Sc.D. Dept. of Civil Engineering	Water Supply and Pollution Control Training	5T1-WP-182-02	$ 14,974
MARYLAND			
Johns Hopkins University Baltimore			
Wolman, M. Gordon, Ph.D. Dept. of Environmental Engr.	Water Sciences and Management Program	5T1-WP-197-02	32,048

Professional
Water Pollution Control / Training Grants / Fiscal Year 1969

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
MASSACHUSETTS			
Harvard University Cambridge			
Morris, J. Carrell, Ph.D. Dept. of Engineering and Applied	Summer Institute in Advanced Sanitary Chemistry	5T1-WP-133-03	5,760
Stumm, Werner, Ph.D. Dept. of Engineering and Applied Physics	Research Education in Aquatic Chemistry	5T1-WP-147-02	34,923
Northeastern University Boston			
Cochrane, John J., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-136-03	41,092
Tufts University Medford			
Hanes, Norman B., Ph.D. Dept. of Civil Engineering	Graduate Training for Environmental Engineering	3T1-WP-192-01(S1) 5T1-WP-192-02	5,500 42,206
University of Massachusetts Amherst			
Feng, Tsuan Hua, Ph.D. Dept. of Civil Engineering	Water Supply and Pollution Control	5T1-WP-[illegible]-05	40,282
MICHIGAN			
Michigan State University East Lansing			
Roelofs, Eugene W., Ph.D. Dept. of Fisheries & Wildlife	Training in Water Supply and Pollution Control	5T1-WP-109-04	47,814
University of Michigan Ann Arbor			
Craine, Lyle E., Ph.D. Dept. of Conservation	Integrated Program of Training in Water Resources	5T1-WP-177-02 3T1-WP-177-02(S1)	119,876 18,014
Wayne State University Detroit			
Dirasian, Henry A., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-101-03	28,836

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
MINNESOTA			
University of Minnesota Minneapolis			
Olson, Theodore A., Ph.D. Dept. of Public Health and Biology	Training in Water Supply and Pollution Control	5T1-WP-95-04	19,394
Schroepfer, George J., M.S. Dept. of Civil Engineering	Sanitary Engineering and Water Resources Program	5T1-WP-191-02	15,402
MISSISSIPPI			
Mississippi State University State College			
Williford, Howard K., M.S. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-108-04	51,317
MISSOURI			
University of Missouri Columbia			
King, Darrell L., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	1T1-WP-220-01	31,485
University of Missouri Rolla			
Grigoropoulos, S. G., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-86-04	36,498
MONTANA			
Montana State University Bozeman			
Wright, John C., Ph.D. Dept. of Environmental Studies	Aquatic Biology and Sanitary Engineering	1T1-WP-228-01	53,053
NEBRASKA			
University of Nebraska Lincoln			
Hammer, Mark J., Ph.D. Dept. of Civil Engineering	Sanitary Engineering	5T1-WP-120-02 5T1-WP-120-02(S1)	29,789 1,620
NEW JERSEY			
Rutgers - The State University New Brunswick			
Kaplovsky, A. Joel, Ph.D. Dept. of Environmental Sciences	Training in Water Supply and Pollution Control	3T1-WP-163-01(S1) 5T1-WP-163-02	2,514 36,589

LOCATION AND PROGRAM DIRECTOR	PROJECT TITLE	GRANT NUMBER	AMOUNT
NEW MEXICO			
New Mexico State University Las Cruces			
Clark, John W., M.S. Dept. of Civil Engineering	Water Quality Management	5T1-WP-196-02	$32,097
NEW YORK			
Cornell University Ithaca			
Gates, Charles D., M.S. Dept. of Water Resources Engr.	Water Quality Control Engineering	5T1-WP-172-02	40,198
Loehr, Raymond C., Ph.D. Dept. of Agricultural Engr.	Management of Animal Wastes	ITI-WP-212-01	23,748
Manhattan College Bronx			
Jeris, John S., Sc.D. Dept. of Civil Engineering	Training of Engineers in Water Pollution Control	5T1-WP-188-02	88,493
O'Connor, Donald J., Sc.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-190-02	15,516
New York University New York			
Molof, Alan H., Ph.D. Dept. of Civil Engineering	Water Supply and Water Pollution Control Engineering	5T1-WP-186-02	68,423
NORTH CAROLINA			
North Carolina State University Raleigh			
Smallwood, Charles, Jr., S.M. Dept. of Civil Engineering	Water Supply and Pollution Control	1T1-WP-230-01	20,305
Smallwood, Charles, Jr., S.M. Dept. of Civil Engineering	Industrial Waste Control and Abatement	5T1-WP-165-02	69,964
University of North Carolina Chapel Hill			
Weiss, Charles M., Ph.D. Dept. of Environmental Sciences and Engineering	Graduate Training in Water Quality Management	5T1-WP-173-02	42,850
OHIO			
Ohio State University Columbus			
Dambach, Charles A., Ph.D. School of Natural Resources	Multidisciplinary Training in Water Pollution Control	1T1-WP-219-01	53,292

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
OHIO (Cont.)			
Ohio State University Columbus			
Dambach, Charles, Jr., Ph.D. Dept. of Civil Engineering	Multidisciplinary Training in Water Pollution Control	3TI-WP-39-04(81)	$ 7,224
University of Cincinnati Cincinnati			
Eye, J. David, Sc.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	1TI-W -209-01	26,106
University of Toledo Toledo			
Bennett, Gary F., Ph.D. Dept. of Chemical Engineering	Training in Water Supply and Pollution Control	5TI-WP-199-01	22,702
OKLAHOMA			
Oklahoma State University Stillwater			
Dorris, Troy C., Ph.D. Dept. of Zoology	Aquatic Ecology Specialists in Water Pollution	5TI-WP-185-02	41,605
Gaudy, Anthony J., Ph.D. Dept. of Civil Engineering	Training in Water Pollution Control Engineering	1TI-WP-238-01	29,769
University of Oklahoma Norman			
Reid, George W., S.M. Dept. of Civil Engr. and Environmental Sciences	Water Resources Development	5TI-WP-189-02	28,336
OREGON			
Oregon State University Corvallis			
Burgess, Fred J., M.S. Dept. of Civil Engineering	Graduate Training in Water Quality Engineering	5TI-WP-187-02	51,371
Curl, Herbert C., Jr., Ph.D. Dept. of Oceanography	Training in Water Supply and Pollution Control	5TI-WP-111-04	90,348
Stoevener, Herbert H., Ph.D. Dept. of Agricultural Economics	Economics of Water Quality and Supply	1TI-WP-217-01	33,016
Warren, Charles E., Ph.D. Dept. of Fisheries and Wildlife	Training in Freshwater and Marine Pollution Biology	5TI-WP-208-02	24,316

LOCATION AND INVESTIGATOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
PENNSYLVANIA			
Drexel Institute of Technology Philadelphia			
Strandberg, William B., Ph.D. Dept. of Environmental Engr and Science	Training in Water Quality Management and Control	5T1-WP-125-02	$ 26,321
University of Pittsburgh Pittsburgh			
Tryon, C. A., Ph.D. Pymatuning Laboratory of Ecology	Graduate Training Program in Aquatic Ecology	5T1-WP-83-04	44,071
SOUTH CAROLINA			
Clemson University Clemson			
Rich, Linvil G., Ph.D. Dept. of Environmental Systems Engineering	Teaching in Process Engineering	5T1-WP-181-02	60,268
SOUTH DAKOTA			
South Dakota State University Brookings			
Dornbush, James N., D. Sc. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-93-05	28,510
TENNESSEE			
Vanderbilt University Nashville			
Krenkel, Peter A., Ph.D. Dept. of Environmental and Water Resources Engineering	Water Resources and Environmental Engineering	5T1-WP-201-02	49,758
TEXAS			
North Texas State University Denton			
Silvey, Joseph K. G., Ph.D. Dept. of Biology	Training in Water Supply and Pollution Control	5T1-WP-107-04	35,402
Texas A&M University College Station			
Davis, William B. Sc.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	2T1-WP-240-01	105,996
University of Texas Austin			
Gloyna, Earnest F., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-183-02	47,320

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
TEXAS (Cont.)			
William Marsh Rice University Houston			
Busch, Arthur W., S.M. Dept. of Environmental Science and Engineering	Training in Water Supply and Pollution Control	5T1-WP-194-02	55,918
UTAH			
University of Utah Salt Lake City			
Gaufin, Arden R., Ph.D. Dept. of Environmental Biology	Water Supply and Water Pollution Biology	1T1-WP-242-01	33,453
Utah State University Logan			
Jones, Norman B., M.S. Dept. of Civil Engineering	Interdisciplinary Training Program in Water Quality	5T1-WP-153-02	37,908
Peterson, Howard B., Ph.D. Dept. of Agricultural and Irrigation Engineering	Irrigation Return Flow Pollution Control Training	ITI-WP-213-01	37,862
VIRGINIA			
Virginia Polytechnic Institute Blacksburg			
King, Paul H., Ph.D. Dept. of Civil Engineering	Water Resources Management and Quality Control	5T1-WP-166-02	40,364
WASHINGTON			
University of Washington Seattle			
Brown, George W., Jr., Ph.D. College of Fisheries	Biological Effects of Water Pollution	5T1-WP-175-02	34,501
Sylvester, Robert O., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-122-04 3T1-WP-122-04(S1)	40,602 3,274
Washington State University Pullman			
Proctor, Donald E., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-170-02	18,769
WEST VIRGINIA			
West Virginia University Morgantown			
Sack, William A., Ph.D. Dept. of Civil Engineering	Training in Waste Water Control and Reclamation	1T1-WP-223-01	25,838

LOCATION AND PROGRAM DIRECTOR	PROGRAM TITLE	GRANT NUMBER	AMOUNT
WISCONSIN			
Marquette University Milwaukee			
Kipp, Raymond J., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-129-03	29,370
University of Wisconsin Madison			
Chesters, Gordon, Ph.D. Dept. of Soils	Soil and Water Sanitation	5T1-WP-100-02	39,290
Hasler, Arthur D., Ph.D. Dept. of Zoology	Biological Aspects of Water Resource Management	5T1-WP-204-02	40,551
Lee, G. Fred, Ph.D. Dept. of Civil Engineering	Chemistry of Water Supply and Pollution Control	5T1-WP-184-02	45,640
Polkowski, Lawrence B., Ph.D. Dept. of Civil Engineering	Training in Water Supply and Pollution Control	5T1-WP-132-04	26,719
Stephenson, David A., Ph.D. Dept. of Geology and Geophysics	Water Resources Management	1T1-WP-215-01 1T1-WP-215-01(S1)	32,712 1,320

WATER POLLUTION CONTROL

TECHNICAL TRAINING GRANTS FISCAL YEAR 1969

SUMMARY OF GRANTS AWARDED BY STATE

State	Institutions and Agencies	Number Awards	Amount Awarded
California	1	1	$28,836
Delaware	1	1	16,070
District of Columbia	2	2	63,720
Maryland	1	1	46,872
Michigan	1	1	29,033
South Carolina	1	1	13,926
6 States	7	7	$198,457

Active Technical Training Grants 1969

9 States
10 Institutions and Agencies
11 Technical Training Grants

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TECHNICAL TRAINING GRANTS

FISCAL YEAR 1969

LOCATION AND INVESTIGATOR	PROJECT TITLE	GRANT NUMBER	AMOUNT
CALIFORNIA			
Sacramento State College Sacramento			
Kerri, Kenneth D., Ph.D. Dept. of Civil Engineering	The Development of a Pilot Correspondence Course for Treatment Plant Operators	5TT1-WP-16-02	$28,836
CONNECTICUT			
Environmental Science Services Corporation Stamford			
Eckenfelder, W. Wesley, Jr. Vice President	Development of Training Materials	1TT1-WP-4-01	_____*
DELAWARE			
Delaware State College Dover			
Seidel, George R., Ph.D. Dept. of Chemistry	Water Chemistry - Basic Theory and Methods	2TT1-WP-2-02 2TT1-WP-2-02(S1)	15,368 702
DISTRICT OF COLUMBIA			
League of Women Voters Education Fund Washington			
Whittemore, Arthur E., Mrs. Dept. of Environmental Projects	Schools for Citizens on Water Use for Tomorrow's Living	2TT1-WP-31-01	47,520
Water Pollution Control Federation Washington			
Burke, George W., Jr. Dept. of Technical Services	Aids for Wastewater Systems Personnel Safety and Advancement	2TT1-WP-32-03	16,200
Burke, George W., Jr. Dept. of Technical Services	Development of Lecture Guides for Wastewater Treatment Plant Operators	1TT1-WP-40-01	_____*
GEORGIA			
Georgia State College Atlanta			
Parrish, Fred K., Ph.D. Dept. of Biology	Identification of Pollution Important Organisms	1TT1-WP-19-01	_____*

* Active 1969 - Supported by funds awarded in previous years

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LOCATION AND INVESTIGATOR	PROJECT TITLE	GRANT NUMBER	AMOUNT
MARYLAND			
Charles County Community College La Plata			
Jensen, Belva L. Dept. of Biology	Water Pollution Control Technicians Curriculum Development	5TT1-WP-3-02	46,872
MASSACHUSETTS			
University of Massachusetts Amherst			
Litsky, Warren, Ph.D. Inst. of Industrial and Agricultural Microbiology	Summer Water Pollution Institute of High School Teachers	1TT1-WP-12-01	_____*
MICHIGAN			
The University of Michigan Ann Arbor			
Mancy, Khalil H., Ph.D. Dept. of Environmental Health	Application of Programmed Learning Techniques to Water Chemistry	5TT1-WP-20-02(S1) 5TT1-WP-20-03	6,467 22,566
SOUTH CAROLINA			
Clemson University Clemson			
Andrews, John F., Ph.D. Dept. of Environmental Systems Engineering	Workshop - Educational Systems for Operators of Water Pollution Control Facilities	1TT1-WP-36-01	13,926

*Active 1969 - Supported by funds awarded in previous years

WATER POLLUTION CONTROL

RESEARCH FELLOWSHIPS FISCAL YEAR 1969

SUMMARY OF AWARDS BY STATES

States	Institutions and Agencies	Number Awarded	Amount Awarded
California	3	7	35,332
Colorado	1	2	10,717
Illinois	1	2	11,700
Indiana	2	3	24,400
Iowa	1	2	15,608
Massachusetts	3	6	46,134
Michigan	3	12	69,704
Missouri	2	3	18,300
Montana	1	1	5,100
New Hampshire	1	2	7,425
New Jersey	1	4	22,107
New Mexico	1	1	6,300
New York	3	11	67,767
North Carolina	1	2	13,550
Oklahoma	1	4	27,100
Oregon	1	3	15,700
Pennsylvania	1	1	54,262
South Carolina	1	3	12,396
Texas	2	2	8,483
Utah	2	4	27,008
Washington	1	1	6,600
Wisconsin	1	12	67,228
Foreign	3	3	19,173
22 States	37	91	$592,094

Active Research Fellowships 1969

29 States
51 Institutions and Agencies
168 Research Fellowships

WATER POLLUTION CONTROL

RESEARCH FELLOWSHIPS

FISCAL YEAR 1969

LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
ARKANSAS			
University of Arkansas Fayetteville			
Owen, Ray Dept. of Civil Engineering	Waste Treatment Prediction Using Computers	1F1-WP-25,936-01	_____*
CALIFORNIA			
Stanford University Stanford			
Atkins, Patrick R. Dept. of Civil Engineering	Rain-out Washout Processes Applied to Lead Aerosols	5F1-WP-33,496-02	_____*
Downs, Charles E. Dept. of Civil Engineering	Radioisotope Training in Water Supply and Pollution Control Nuclear Hydrology	1F1-WP-26,323-01	_____*
Ferguson, John F. Dept. of Civil Engineering	Calcium Phosphates in Anaerobic Digestors	1F1-WP-26,345-01	6,600
Foree, Edward G. Dept. of Civil Engineering	Decomposition of Algae in Natural Anaerobic Waters	5F1-WP-26,177-02	173**
Rachford, Thomas M. Dept. of Civil Engineering	Economics of Water Quality Renovation	1F1-WP-26,353-01	5,600
University of California Berkeley			
Cordes, Ronald A. Dept. of Chemical Engineering	Filtration of Aqueous Effluents Carrying Emulsified Oils	1F1-WP-26,276-01(S1) 5F1-WP-26,276-02	231** 5,600
Kruger, Paul, Ph.D. Dept. of Civil Engineering	Special Studies in Hydrology and Water Pollution Control	1F3-WP-26,259-01A1	11,528
University of California Davis			
Hills, David J. Dept. of Civil Engineering	Environment Engineering Program	1F1-WP-26,417-01	5,600
Middlebrooks, Eddie J., Ph.D. Dept. of Civil Engineering	Kinetics of Biological Systems	1F3-WP-26,205-01	_____*

* Active 1969,- Supported by funds awarded in previous years.
** Supply, travel or dependent allowance

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
COLORADO			
Colorado State University Fort Collins			
Deason, Wayne Dept. of Microbiology	Effect of Certain Heavy Metal ions on Bacteria in a Mine Polluted Stream	1F1-WP-26,417-01	5,100
Peters, John C. Dept. of Fishery & Wildlife	Effects of Sedimentation on a Trout Stream	5F1-WP-26,268-02	5,300
Wendt, Theodore M. Dept. of Pathology and Microbiology	Urease Positive Bacteria and their Relation to Water Pollution	5F1-WP-26,114-02	317**
FLORIDA			
Florida State University Tallahassee			
Housley, Carl B. Dept. of Economics	An Economic Evaluation of Water Laws	1F1-WP-26,277-01	_____*
GEORGIA			
Emory University Atlanta			
Mozley, Samuel Dept. of Biology	Ecology of Chironomid Species in a Small Lake	1F1-WP-37,227-01	_____*
IDAHO			
University of Idaho Moscow			
Lank, John C. Dept. of Civil Engineering	The Effects of Accumulated Decomposition Products on Rates of Biological Treatment of Organic Wastes	1F1-WP-26,295-01	_____*
Siddoway, Dean W. Dept. of Chemical Engineering	Mechanisms of Potato Waste Degradation	1F1-WP-26,282-01	_____*
ILLINOIS			
University of Illinois Urbana			
Betchart, Will B. Dept. of Civil Engineering	Optimum Sample Intervals for Water Quality Monitoring	1F1-WP-26,407-01	5,100
Foster, David H. Dept. of Civil Engineering	Virus Removal by Porous Media	1F1-WP-26,406-01	6,600

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
INDIANA			
Purdue University Lafayette			
Rollag, Dwayne A. Dept. of Civil Engineering	Anaerobic Pre-treatment for Aerobic Treatment Systems	1F3-WP-26,312-01 1F3-WP-26,312-02	500** 12,500
University of Notre Dame Notre Dame			
Pavoni, Joseph L. Dept. of Civil Engineering	Aspects of Bioflocculation	1F1-WP-38,375-01A2 5F1-WP-38,375-02 1F1-WP-38,375-01A2(S1)	5,100 5,800 500**
IOWA			
Iowa State University Ames			
Bridges, Harold R. Dept of Civil Engineering	Diatomite Filter Cake Resistance for Surface Waters	5F1-WP-26,104-04	_____*
Huang, Jerry Y. C. Dept. of Civil Engineering	Optimum Design of Sand Filters	1F1-WP-26,384-01	5,600
Raschke, Ronald L. Dept. of Botany and Plant Pathology	Algal Productivity and Waste Reclamation in a Sewage Stabilization Pond	5F1-WP-26,064-03	_____*
Schara, Jerald Dept. of Civil Engineering	Biological Inhibition by Industrial Waste Stream	1F3-WP-26,380-01	10,008
Sedgwick, Stephen R. Dept. of Civil Engineering	Biological Treatment of Adsorbed Refractories	5F1-WP-26,242-02	_____*
Wildman, Ruth B. Dept. of Botany	The Biochemistry of the Blue-Green Algae	5F1-WP-37,930-02	_____*
University of Iowa Iowa City			
Bacon, Dale L. Dept. of Civil Engineering	Bio-flocculation in the Anaerobic Contact Process	1F1-WP-26,332-01	_____*
Lampe, Wallace D. Dept. of Civil Engineering	Biological Flocculation in Activated Sludge	5F1-WP-33,656-03	_____*
LOUISIANA			
Northwestern State Natchitoches			
Damico, Sam A. Dept. of Biological Science	Effect of Treated Sewage Effluent on Primary Production	1F1-WP-26,322-01	_____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
MARYLAND			
Johns Hopkins University Baltimore			
Myers, Caldwell D. Dept. of Environmental Engineering Science	Responses of the White Perch to Temperature and Oxygen	1F1-WP-26,198-01A1	_____*
MASSACHUSETTS			
Harvard University Cambridge			
Chi, Tze-wen Dept. of Civil Engineering	Analysis of a Waste Water Transportation System for the Penjerdel Megaloplis	1F1-WP-26,303-01	_____*
Ferguson, John F. Dept. of Engineering and Applied Physics	Calcium Phosphates in Natural and Wastewaters	1F2-WP-26,345-01	7,219
Jenkins, David I., Ph.D. Dept. of Engineering and Applied Physics	Chemical Treatment of Wastewaters	1F3-WP-26,404-01	6,655
Murdoch, David M. Graduate School of Business Administration	Financing Water Supply and Pollution Control Projects	1F3-WP-26,258-01	_____*
Tihansky, Dennis P. Dept. of Engineering and Applied Physics	Models of Environmental Health and Economic Growth	5F1-WP-26,285-02	5,300
Marine Biological Laboratory Woods Hole			
Markel, Raymond P. Dept. of Systematics-Ecology Program	Thermal Loading and the Ecology of Cape Cod Canal	1F2-WP-26,382-01	8,634
University of Massachusetts Amherst			
Abron, Lilia A. Dept. of Civil Engineering	Removal of Organic Pollutants by Reverse Osmosis	1F1-WP-26,346-01	5,176
DesRosiers, Paul Dept. of Civil Engineering	Removal of Herbicides by Reverse Osmosis	1F1-WP-26,376-01	13,150
Saines, Marvin Dept. of Geology	Hydrology Induced Infiltration	5F1-WP-26,229-02	_____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
MICHIGAN			
Michigan State University East Lansing			
Bahr, Thomas G. Dept. of Fisheries and Wildlife	Effects of Sublethal Pesticide Stress Upon Fish	4F1-WP-26,004-05	____*
Eyman, Lyle D. Dept. of Fisheries and Wildlife	A Trophic Level Effect of Cs 137 Content in Fish	1F1-WP-26,354-01A1	6,600
Fast, Arlo W. Dept. of Fisheries and Wildlife	Effects of Artificial Destratification on Lake Ecology	5F1-WP-26,292-02	5,100
Haines, Terry A. Dept. of Fisheries and Wildlife	Some Effects of Water Pollution on Fish Populations	5F1-WP-26,225-03	5,300
Jensen, Alvin L. Dept. of Fisheries & Wildlife	Effect of Organic Pollution on Energy Transfer of Microbes in a Stream Ecosystem	5F1-WP-26,154-03	____*
Manny, Bruce A. Dept. of Botany and Plant Pathology	Nitrogen Content of Net and Nanno Phytoplankton	1F1-WP-26,378-01	4,900
O'Brien, William J. Dept. of Ecology and Systematics	Plankton Succession in Artificially Fertilized Ponds	5F1-WP-26,280-02	5,300
Michigan State University Hickory Corners			
Miller, Michael C. Dept. of Botany	Organic Excretion and Hetertrophy Within a Plankton Community	5F1-WP-37,449-03	2,834
University of Michigan Ann Arbor			
Atkins, Peter F. Dept. of Civil Engineering	Kinetics and Uptake of Nitrogen and Phosphates by Ion Exchange	5F1-WP-26,174-02	____*
DiGiano, Francis A. Dept. of Civil Engineering	Activated Carbon Adsorption in Heterogeneous Systems	5F1-WP-26,176-02	____*
Eisele, Paul J. Dept. of Environmental Health	Long Term Effects of Methoxychlor on Aquatic Insects	1F1-WP-26,399-01	5,100
Foess, Gerald W. Dept. of Civil Engineering	The Sand Filtration of Algae Suspensions	5F1-WP-26,036-04	____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
MICHIGAN (Continued)			
University of Michigan Ann Arbor			
Leland, Harry V. Dept. of Fisheries and Wildlife	Structure-Toxicity of M. Parathion Analogs to Fishes	5F1-WP-26,240-02	_____*
Life, Jeffry S. Dept. of Zoology	Histopathological Responses of Fish Chronically Exposed to Sublethal Levels of Heavy Metal Pollutants	5F1-WP-26,315-02	7,300
Meier, Peter G. Dept. of Environmental Health	Photosynthetic Oxygen Relationships in Channels	1F1-WP-26,296-01 5F1-WP-26,296-02	370** 6,300
Midkiff, William S. Dept. of Civil Engineering	Fluidized-ion Exchange Column	5F1-WP-26,227-02(S1)	1,600
Nolan, Melvin Dept. of Environmental Health	Determining the Forms of Phosphorus in Natural Waters	1F1-WP-26,399-01	7,100
Parrott, Robert W. Dept. of Environmental Health	Computer Aided Wastewater Treatment Plant Design	1F1-WP-26,297-01A1	5,600
Pohland, Frederick, Ph.D. Dept. of Environmental Health	Study and Research in Water Resources Sciences	1F3-WP-37,035-01	_____*
Schenk, John Dept. of Civil Engineering	Silica Interaction with Trace Metals	5F1-WP-26,034-04	_____*
Schimpff, Warren K. Dept. of Environmental Health	Ion-Specific, Ion-Exchange Membrane Electrodes	1F1-WP-26,298-01	_____*
Sharpin, Ronald E. Dept. of Environmental Health	Reaeration Coefficient Relationship to Longitudinal Mixing and Roughness	5F1-WP-26,299-02	6,300
Winklehaus, Charles Dept. of Civil Engineering	Phosphate Stripping from Waste Waters	5F1-WP-26,231-02	_____*
MISSOURI			
University of Missouri Columbia			
Atherton, Michael J. Dept. of Civil Engineering	Equilibrium Carbon Chemistry and Eutrophication	1F1-WP-26,410-01	6,600
Hoehn, Robert C. Dept. of Civil Engineering	Biological Degradation of Organics Adsorbed on Activated Carbon	5F1-WP-26,150-03	_____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
MISSOURI (Continued)			
University of Missouri Rolla			
Matthews, James R. Dept. of Civil Engineering	Doctoral Study and Research in Trace Organic Pollutants	1F1-WP-26,387-01	5,600
Sievers, Dennis M. Dept. of Civil Engineering	Role of Carbon Availability in Pond Eutrophication	1F1-WP-26,408-01	6,100
Washington University St. Louis			
Smith, James E. Dept. of Civil And Environmental Engineering	Control of Activated Sludge Bulking with Heavy Metals	5F1-WP-26,249-02	_____*
MONTANA			
Montana State University Bozeman			
Bahls, Loren L. Dept. of Botany and Microbiology	Primary Productivity in the East Gallatin River, is Relevant to Domestic Sewage Increments	1F1-WP-26,381-01	5,100
University of Montana Missoula			
Morgan, Garth R. Dept. of Zoology	The Fate of Mineral Nutrients in Flathead Lake, Montana	5F1-WP-26,212-02	_____*
Sonstelie, Lawrence C. Dept. of Zoology	Effects of DDT Application on Stream Insects	1F1-WP-26,319-01	_____*
NEW HAMPSHIRE			
University of New Hampshire Durham			
Gallup, Donald N. Dept. of Zoology	Zoo-Nannoplankton Relationship in a Mesotrophic Lake	5F1-WP-26,218-03	1,325
McGill, Hugh J. Dept. of Zoology	Algal Blooms in Eutrophic Waters	1F1-WP-26,265-02	6,100
NEW JERSEY			
Rutgers University New Brunswick			
Allen, Harry L. Dept. of Environmental Sciences	Benthal Decomposition of Absorbed Hydrocarbons	1F1-WP-26,374-01	5,100 700**
Berdahl, Barry J. Dept. of Environmental Sciences	Nitrification in Estuarine Waters	1F1-WP-26,356-01	5,100

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
NEW JERSEY (Continued)			
Rutgers University New Brunswick			
Carton, Robert J. Dept. of Environmental Sciences	Treatment Plant Effluents Upon Various Tertiary Treatment Process	1F1-WP-26,375-01	6,107
Hemmett, Roland B. Dept. of Environmental Sciences	Biodegradation Kinetics of 2,4-D	1F1-WP-26,373-01	5,100
NEW MEXICO			
New Mexico State University Las Cruces			
Kramer, Gary R. Dept. of Civil Engineering	Mathematical Model of the Transition State	5F1-WP-26,220-02	_____*
Foulds, Jon M. Dept. of Civil Engineering	The Kinetics of BOD Reduction With Ozone	1F1-WP-26,288-01A1	6,300
NEW YORK			
Clarkson College of Technology Potsdam			
Andros, Peter J. Dept. of Civil Engineering	A Water Renovation Process for Virus Removal	1F1-WP-26,270-01(S1)	300**
Cornell University Ithaca			
Alexander, Martin, Ph.D. Dept. of Agronomy	Biochemical Ecology of Microorganisms	1F3-WP-26,260-01	700**
Arnold, Dean E. Dept. of Ecology and Systematics	Effects of the Blue-Green Algae on Zooplankton	5F1-WP-36,214-02	_____*
Gablinger, Moshe Water Resources Engineering	Application of Operations Research to Water Management	5F1-WP-26,262-02	6,800
Grove, Thurman L. Dept. of Ecology and Systematics	Population Dynamics and Seasonal Metabolism of Zooplankton	5F1-WP-26,314-02	4,975
Haith, Douglas A. Dept. of Water Resources Engineering	River Basin Management Procedures	1F1-WP-26,366-01A1	5,100
Johnson, Glenn M. Dept. of Water Resources Engineering	Water Resources Systems Engineering	1F1-WP-26,367-01A1	5,600

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
NEW YORK (Continued)			
Cornell University Ithaca			
Milnes, Thomas R. Dept. of Water Resources Engineering	Use of Systems Analysis in Water Pollution Control	5F1-WP-26,264-02	6,800
Scherer, Charles R. Dept. of Environmental Systems Engineering	Environmental Systems Engineering	1F1-WP-26,365-01A1	5,100
Schulte, Dennis Dept. of Agricultural Engineering	Animal Waste Pollution Control	1F1-WP-26,369-01A1	5,600
Skelly, Michael Dept. of Sanitary Engineering	Optimal Process Design for Multiple Waste Components	1F1-WP-33,749-01A1	*
Stensel, H. David Dept. of Water Resources Engineering	Optimization of Wastewater Treatment Process	5F1-WP-26,284-02	5,800
Verma, Rameshwar D. Dept. of Water Resources Engineering	Nonlinear Model for Predicting Extreme Runoff	5F1-WP-26,266-02 5F1-WP-26,266-02(S1)	7,800 500**
New York University University Heights			
Blanc, Frederick C. Dept. of Civil Engineering	Control of Electrode Potentials in Digestion	1F1-WP-26,251-01	292**
Zuckerman, Matthew M. Dept. of Civil Engineering	Secondary Effluent Suitability for Carbon Treatment	1F1-WP-26,253-01	*
Rensselaer Polytechnic Institute Troy			
Hardt, Frederick W. Dept. of Environmental Engineering	The Use of Ultrafiltration for Wastewater Treatment	1F1-WP-26,336-01 5F1-WP-26,336-02	6,300 6,100
NORTH CAROLINA			
North Carolina State University Raleigh			
Byron, Michael M. Dept. of Zoology	Movement of Dissolved Organics in Estuarine Environment	1F1-WP-26,275-01	*
Engel, David W. Dept. of Zoology	Effects of Environmental Factors of Marine Crustacea	5F1-WP-26,269-02	6,600

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
NORTH CAROLINA (Continued)			
North Carolina State University Raleigh			
Hoss, Donald E. Dept. of Zoology	Metabolic Rates of Estuarine Fish	5F1-WP-26,271-02	6,950
OHIO			
University of Cincinnati Cincinnati			
Pappas, James M. Dept. of Civil Engineering	Urban Runoff Characteristics	1F1-WP-26,326-01	_____*
OKLAHOMA			
Oklahoma University Norman			
Engelken, Walter Dept. of Civil Engineering and Environmental Science	Ionic Buffer Capacity of High Surface Area Materials	1F1-WP-26,233-01(S1)	_____*
Oklahoma State University Stillwater			
Burks, Sterling L. Dept. of Zoology	Aqueous Organic Chemical Pollutants	1F2-WP-28,210-01A2 5F2-WP-28,210-02	7,000 7,500
Eley, Rex L. Dept. of Zoology	Community Metabolism and Physiochemical Limnology of Keystone Reservoir	1F1-WP-26,335-01	5,800
Grady, C. P. Leslie Dept. of Civil Engineering	Metabolic Control in Multicomponent Systems	5F1-WP-16,744-04	_____*
Kochsiek, Kenneth A. Dept. of Zoology	Zooplankton and Water Quality in Keystone Reservoir	1F1-WP-26,340-01	6,800
OREGON			
Oregon State University Corvallis			
Bolen, John J. Dept. of Oceanography	Marine Radioecology	1F1-WP-26,321-01	_____*
Broaderius, Steven J. Dept. of Fisheries & Wildlife	Toxicity of Complex Metal Cyanides to Fish	1F1-WP-26,364-01	5,100
Gillespie, Paul A. Dept. of Microbiology	Sediment-Water-Bacteria Interaction in Eutrophication	5F1-WP-26,289-02	5,300
Haertel, Lois J. Dept. of Oceanography	Relationships Between Columbia River Estuary Plankton, Radionuclides and Wood Fibers	5F1-WP-31,471-02	_____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
OREGON (Continued)			
Oregon State University Corvallis			
McCain, Bruce B. Dept. of Microbiology	The Characterization of a Sockeye Salmon Virus	5F1-WP-26,157-03	_____*
Roelofs, Terry D. Dept. of Fisheries and Wildlife	Parameters of Sublethal Effects of Dieldrin on Fish	1F1-WP-26,363-01	5,300
Williams, Harvey D. Dept. of Botany and Plant Pathology	Kraft Pulp Effluent Effects on Algae in Streams	5F1-WP-26,159-02	_____*
PENNSYLVANIA			
Philadelphia Academy of Science Philadelphia			
Patrick, Ruth, Ph.D. Dept. of Limnology	Training of 8 Professional Limnologists in Water Pollution Control	ITI-WP-227-01	54,262
SOUTH CAROLINA			
Clemson University Clemson			
Click, Clifford Dept. of Chemical Engineering	Growth Kinetics of Algae	5F1-WP-29,884-03	_____*
Cline, David M. Dept. of Environmental Systems Engineering	Population Dynamics in Surface Attached Micro-organisms	5F1-WP-26,287-02	5,800
Holland, Lyman L. Dept. of Chemical Engineering	The Kinetics of an Algal Photosynthetic Gas Exchanger	5F1-WP-26,173-03	_____*
Stokley, Dave R. Dept. of Chemical Engineering	The Rate and Composition of Gases Evolved in a Lagoon	1F1-WP-26,328-01(S1)	296**
Weers, Walter A. Dept. of Environmental Systems Engineering	Multi-Stage-Pluristream Continuous Culture of Microorganisms	5F1-WP-26,243-03	3,400
Wrenn, John D. Dept. of Chemical Engineering	The Effect of Light Source on Chlorophyll in Algae	5F1-WP-26,181-04	2,900
Young, Thomas B. Dept. of Environmental Systems Engineering	Analysis of a Pure Continuous Culture	1F1-WP-26,331-01	_____*

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
TEXAS			
North Texas State University Denton			
Newton, Charles E. Dept. of Biology	A Eutrophication Study on a Unique Reservoir	1F1-WP-26,423-01	5,100
University of Texas Austin			
Lindsey, Edgar E. College of Engineering	Chemical and Environmental Engineering	1F3-WP-26,255-01	500**
Steed, David L. Dept. of Marine Science Institute	Carbon Metabolism of an Estuarine Ecosystem	5F1-WP-26,209-03	2,883
UTAH			
University of Utah Salt Lake City			
Baumann, Richard W. Dept. of Environmental Biology	The (Nemouridae Plecoptera) of Western North America	1F1-WP-26,393-01	6,834
Jacobi, Gerald Z. Dept. of Zoology and Entomology	A New Artificial Substrate for Pollution Surveillance	1F1-WP-26,325-01	_____*
Merkley, Wayne B. Dept. of Zoology	Evaluation of Nematodes in Water Treatment Plant	5F1-WP-26,016-05	_____*
Miner, Michael L. Dept. of Environmental Biology	Ecological Distributional and Water Quality Requirements of Macro-Invertebrates in a Specific System	1F1-WP-26,395-01	6,136
Morgan, Garth R. Dept. of Environmental Biology	The Fate of Mineral Nutrients in Flathead Lake, Montana	5F1-WP-26,212-03	6,800
Prows, Bernard L. Dept. of Zoology and Entomology	Bioassays to Determine the Toxicity of Pesticides to Aquatic Insects	5F1-WP-26,130-03	_____*
Utah State University Logan			
Beers, Gary D. Dept. of Wildlife Resources	Algal and Sphaerotilus Production in a Polluted River	5F1-WP-33,276-02	438**
Mayer, Foster L. Dept. of Wildlife Resources	Insecticide Interaction Effects on Fish Metabolism	5F1-WP-31,575-03	6,800

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
WASHINGTON			
University of Washington Seattle			
Gotelli, David M. Dept. of Botany	Fungal Parasites of the Phytoplankton	5F1-WP-26,248-02	_____*
Washington State University Pullman			
Edmundson, Eldon H., Jr. Dept. of Zoology	Interaction of Three Pollutants on Fish Survival	1F1-WP-26,371-01	6,600
WISCONSIN			
University of Wisconsin Madison			
Baillod, Charles Dept. of Civil Engineering	Mass Transfer of Nutrients Through Bacterial Floc	5F1-WP-24,612-02	_____*
Bentley, Eugene M. Dept. of Civil Engineering	Effect of Marshes on Water Quality	5F1-WP-26,189-02	_____*
Berthouex, Paul M. Dept. of Civil Engineering	Optimum Waste Treatment System Design	1F1-WP-26,306-01(S1) 5F1-WP-26,306-02	135** 4,716
Bortleson, Gilbert C. Dept. of Civil Engineering	Eutrophication-Lake Sediment Cores	5F1-WP-26,188-02	2,900
Cowen, William F. Dept. of Civil Engineering	Effect of Organics on Growth of Algae	1F1-WP-26,207-01 5F1-WP-26,207-02(S1) 5F1-WP-26,207-03	500** 286** 6,300
Gardner, Wayne S. Dept. of Civil Engineering	Amino Acids in Natural Water Systems	5F1-WP-26,224-03	6,300
Hazelwood, Loren F. Dept. of Water Chemistry	Electrolytic Treatment of Cyanide Wastes	1F1-WP-26,304-01	_____*
Hughes, Robert A. Dept. of Civil Engineering	Persistence of Toxaphene in Natural Waters	5F1-WP-26,196-03	6,800
Jebens, Harold J. Dept. of Civil Engineering	Nitrogen Transformations in Streams	1F1-WP-26,311-01(S1) 5F1-WP-26,311-02	441** 6,800
Kluesener, John W. Dept. of Civil Engineering	Studies on the Effect of Pulp and Paper Pollution of Wisconsin River	5F1-WP-26,310-02	6,600
Koonce, Joseph F. Dept. of Zoology	Biological Investigations on Polluted Impoundments	5F1-WP-26,279-02	5,600
Peterson, James O. Dept. of Civil Engineering	Concentration of Organics	5F1-WP-26,183-03	_____*
Plumb, Russell H. Dept. of Civil Engineering	Chlorination of Cyanide Planting Wastes	5F1-WP-26,316-02	5,300

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
WISCONSIN (Continued)			
University of Wisconsin Madison			
Rees, Colin P. Dept. of Zoology	Two Factors Influencing the Distribution of Gammarus Pseudolimnaeus	5F1-WP-36,364-03	2,650
Rodel, Max G. Dept. of Civil Engineering	Characterization of Algal Odors	1F1-WP-26,317-01	_____*
Shannon, James E. Dept. of Civil Engineering	Estimating Eutrophication of Lakes by Sediment Cores	5F1-WP-26,012-04	_____*
Sherman, Marguerite L. Dept. of Civil Engineering	Use of Sedimentary Algal Pigments to Estimate Eutrophication	1F1-WP-26,307-01	5,100
TeKippe, Rudy J. Dept. of Civil Engineering	Application of Flocculation Theories	5F1-WP-26,100-02	6,800
Tranquillo, James S. Dept. of Civil Engineering	Septic Tanks as a Source of Phosphorus for Lakes	1F1-WP-26,329-01	_____*
Walton, Craig P. Dept. of Civil Engineering	Microhabitats of Indicator Organisms	1F1-WP-26,330-01	_____*
FOREIGN			
ENGLAND			
Freshwater Biological Association Ambleside			
Stockner, John G., Ph.D. Dept. of Chemistry	Lake Sediments Study	1F2-WP-26,042-01	_____*
University of Southampton Southampton			
Barlow, John P., Ph.D. Dept. of Oceanography	Experimental Studies on Aquatic Communities	1F3-WP-26,389-01	9,082
Wellcome Marine Laboratory Whitby			
Pollock, Leland W., Ph.D. Systematics-Ecology Program	Pollution in the Marine Interstitial Ecosystem	1F2-WP-26,391-01	6,108 500**
Westfield College London			
Jewell, William J., Ph.D. Dept. of Botany	Algae and Sessile Plant Degradation in Waterways	1F2-WP-33,693-01 1F2-WP-33,693-01(S1) 5F2-WP-33,693-02	500** 333** 2,650

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LOCATION AND RECIPIENT	PROJECT TITLE	NUMBER	AMOUNT
FOREIGN (Continued)			
SWEDEN			
Chalmers University of Technology Goteborg			
Kirk, Thomas K., Ph.D. Dept. of Organic Chemistry	Use of Hymenomycetes to Decompose Waste Lignin	1F2-WP-26,273-01	_____*
SWITZERLAND			
Swiss Federal Institute of Technology Zurich			
Washington, Donald R., Ph.D. Biological Section	Effects of Algae on Stream Oxygen Balance	1F3-WP-7935-01	_____*

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